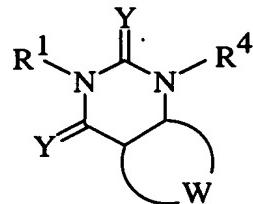


ABSTRACT

Selective MMP-13 inhibitors are fused pyrimidinones of the formula



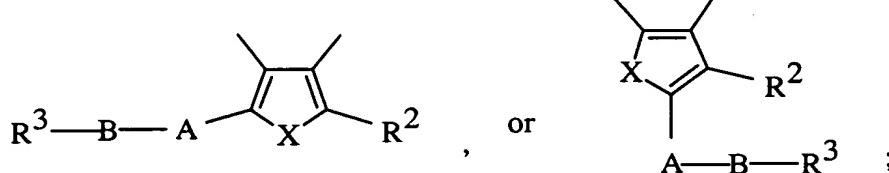
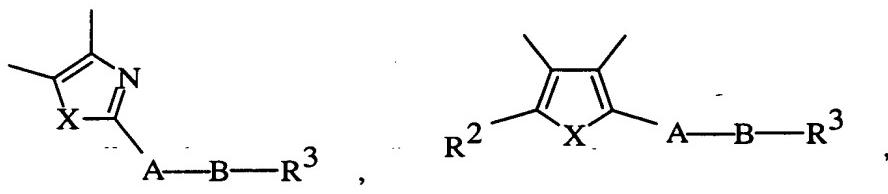
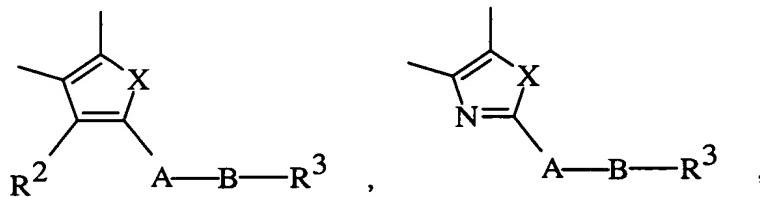
or a pharmaceutically acceptable salt thereof,

5

wherein:

W, together with the carbon atoms to which it is attached, form a 5-membered

ring diradical



X is O, S, SO, SO₂, NR⁵, or CH₂;

10

O (O)_n

|| ||

A is -C- or -S-;

B is O or NR⁵; or

A and B are taken together to form -C≡C-;

R¹, R⁴, and R⁵ are hydrogen, alkyl, alkenyl, alkynyl, (CH₂)_n aryl, (CH₂)_n cycloalkyl, C₁-C₆ alkanoyl, or (CH₂)_n heteroaryl;

R² and R³ are hydrogen, alkyl, alkenyl, alkynyl CN, NO₂, NR⁴R⁵, (CH₂)_n cycloalkyl, (CH₂)_n aryl, or (CH₂)_n heteroaryl;

5 R² may further be halo;

n is an integer of from 0 to 5; and

R⁴ and R⁵ when taken together with a nitrogen to which they are both attached complete a 3- to 8-membered ring containing carbon atoms and optionally containing O, S, or N, and substituted or unsubstituted;

10 with the proviso that R¹ and R³ are not both selected from hydrogen and C₁-C₆ alkyl.

DRAFT EDITION